PLAINTIFFS' PROPOSED FINDINGS OF FACT AND CONCLUSIONS OF LAW

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20	UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA		
21	CHASOM BROWN, WILLIAM BYATT,	Case No.: 4:20-cv-03664-YGR-SVK	
22	JEREMY DAVIS, CHRISTOPHER CASTILLO, and MONIQUE TRUJILLO	PLAINTIFFS' PROPOSED FINDINGS	
23	individually and on behalf of all similarly	OF FACT AND CONCLUSIONS OF	
24	situated,	LAW	
	Plaintiffs,	The Honorable Magistrate Judge van Keulen	
25	Ve	Courtroom 6 - 4th Floor Date: April 21, 2022	
26	VS.	Time: 10:00 a.m.	
27	GOOGLE LLC,		
28	Defendant.		

[PLAINTIFFS' PROPOSED] FINDINGS OF FACT AND CONCLUSIONS OF LAW

Before the Court is Plaintiffs' motion seeking sanctions for Google's discovery misconduct. ("Plaintiffs' Motion" or "Mot.") (Dkt. 430). Plaintiffs moved for leave to file to file a supplement ("Supp."), which the Court granted (Dkt. 512). Google filed an Opposition ("Opp.") (Dkt. 528), and Plaintiffs filed a Reply ("Reply") (Dkt. 536). The parties also filed competing proposed Findings of Fact and Conclusions of Law (Dkts. XX, XX), and the Court held an inperson evidentiary hearing on April 21, 2022.

Having considered all of the papers and evidence before the Court, the Court GRANTS Plaintiffs' Motion. As detailed in this Findings of Fact and Conclusions of Law, Google violated this Court's discovery orders and engaged in other discovery misconduct warranting the sanctions imposed below.

FINDINGS OF FACT

I. <u>Background</u>

A. Plaintiffs' Allegations

- 1. On September 21, 2020, Plaintiffs filed their First Amended Complaint ("FAC") (Dkt. 68). Plaintiffs' FAC challenged Google's "surreptitious interception and collection of personal and sensitive user data while users are in a 'private browsing mode," including Google's Chrome "Incognito" mode. FAC ¶¶ 151-57, 63-66 (Dkt. 68).
- 2. In their FAC, Plaintiffs alleged that Google sets a unique identifier, called an "X-Client-Data Header," for each device on which Chrome is installed. *Id.* ¶ 95. Plaintiffs further alleged that Google transmits this unique digital string to its servers in all Chrome states *except* Chrome's Incognito mode, allowing Google to use the absence of the X-Client-Data Header to determine whether a user is in Incognito mode. *Id.* ¶ 96.
- 3. In addition to challenging Google's interception and collection of data from users visiting non-Google websites in "private browsing mode," Plaintiffs also alleged that Google used such data "to improve Google's own algorithms and technology, such as Google Search." *Id.* ¶ 115. For instance, Plaintiffs alleged:

Google market power in Search is entirely dependent on its ability to track what consumers are doing. The trackers that Google has across the internet not only tell Google where consumers go subsequent to searching on Google Search, the trackers allow Google to track what websites are popular and how often they are visited. By compiling not just consumer profiles, but surveying human behavior across the vast majority of web browser activity, Google is able to create a better and more effective search product as compared to its competitors, by its ability to claim that Google knows how to best rank websites and online properties, because Google can track consumers' activity better than anyone ese. Google Search would not be nearly as effective as a search tool without Google Analytics as a complement.

Id. ¶ 121.

- 4. Plaintiffs' FAC alleged claims for (1) federal wiretap violations, 18 U.S.C. §§ 2510, et seq.; (2) invasion of privacy act violations, Cal. Pen. Code §§ 631 & 632; (3) violations of the Comprehensive Computer Data Access and Fraud Act ("CDAFA"), Cal. Pen. Code §§ 502, et seq.; (4) invasion of privacy; and (5) intrusion upon seclusion. See id. ¶¶ 202-66.
- 5. Plaintiffs asserted these claims on their own behalf, and on behalf of the following classes:

Class 1 – All Android device owners who accessed a website containing Google Analytics or Ad Manager using such a device and who were (a) in "private browsing mode' on that device's browser and (b) were not logged into their Google account on that device's browser, but whose communications, including identifying information and online browsing history, Google nevertheless intercepted, received, or collected from June 1, 2016 through the present (the "Class Period");

Class 2 – All individuals with a Google account who accessed a website containing Google Analytics or Ad Manager using any non-Android device and who were (a) in "private browsing mode" in that device's browser, and (b) were not logged into their Google account on that device's browser, but whose communications, including identifying information and online browsing history, Google nevertheless intercepted, received, or collected from June 1, 2016 through the present (the "Class Period").

Id. ¶ 192.

- 6. Plaintiffs alleged that "individual members [of the classes] will be identifiable from Google's records, including from Google's massive data storage, customer accounts, and enterprise services." *Id.* ¶ 194.
- 7. On March 12, 2021, the Court issued an order denying Google's motion to dismiss in its entirety. Order (Dkt. 113). In doing so, the Court noted Plaintiffs' allegation regarding identification of Incognito users:

1	[P]laintiffs allege that, for users using Chrome without Incognito Mode, Chrome constant transmits "a unique digital string of characters called Google's 'X-Client-Data Header's the Chrome constant transmits "a unique digital string of characters called Google's 'X-Client-Data Header's the Chrome constant transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's transmits "a unique digital string of characters called Google's 'X-Client-Data Header's "a unique digital string of characters called Google's 'X-Client-Data Header's "a unique digital string of characters called Google's 'X-Client-Data Header's "a unique digital string of characters "a unique digital string" and "a unique digital str			
2	such that Google uniquely identifies a device thereafter.' However, Plaintiffs allege that the X-Client Data Header is not present when a Chrome user has enabled Incognito Mode Accordingly, Plaintiffs allege that Google is able to tell when a Chrome user has enabled			
3	Incognito Mode.			
4	<i>Id.</i> at 4.			
5	8. Plaintiffs subsequently amended their Complaint in April 2021 to add causes of			
6	action for (1) breach of contract and (2) violations of California's Unfair Competition Law			
7	("UCL"). Second Amended Complaint ("SAC") (Dkt. 136-1). The Court subsequently denied			
8	Google's motion to dismiss Plaintiffs' SAC in its entirety. Dkt. 363.			
9	9. On February 3, 2022, Plaintiffs moved for leave to file their Third Amended			
10	Complaint ("TAC"), which amended their class definitions to include Google's collection of			
11	private browsing information by way of all "Google tracking or advertising code." The TAC			
12	defines the classes as follows:			
13	Class 1 – All Chrome browser users with a Google account who accessed a non-Google			
14	website containing Google tracking or advertising code using such a browser and who were (a) in "Incognito mode" on that browser and (b) were not logged into their Google account			
15 16	on that browser, but whose communications, including identifying information and online browsing history, Google nevertheless intercepted, received, or collected from June 1, 2010 through the present (the "Class Period").			
17	Class 2 – All non-Chrome browser users with a Google account who accessed a non-			
18	Google website containing Google tracking or advertising code using any such browser and who were (a) in "private browsing mode" on that browser, and (b) were not logged			
19	manifered on collected from June 1, 2016 through the magnet (the "Class Devied")			
20	TAC (Dkts. 395, 395-2). The Court granted Plaintiffs' motion on March 18, 2022 (Dkt. 504).			
21	B. Since 2017, Google Has Used Tools It Built to Identify Chrome Incognite			
22	Traffic			
23	10. In 2017, Google began logging a field called "is_chrome_incognito" in at least			
24	Google logs with limited retention periods: (1)			
25	and (2) retention period). Pls'. Supp, Ex. 2, Sadowsk			
26	Reference Sheet (Dkt. 511-3).			
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1	11. In 2017, Google also began logging a field called "is_chrome_non_incognito" in at
2	least Google logs with limited retention periods: (1)
3	retention period); (2)
1	and (3) retention period). <i>Id</i> .
5	12. Google has not provided information regarding exactly when these two Incognito-
5	detection bits were implemented by Google, except that it occurred sometime in 2017.
7	13. These two fields exist in GWSLogEntryProto, which means that Google can enable
3	them in any GWS log, even where Google is not already logging them in that log. Thompson Decl.
)	¶¶ 16-18 (Dkt. 536-8). Writing to an existing field within a Protocol Buffer data structure (e.g.,
10	GWSLogEntryProto) is a one-line code addition. Id. Google's own public documentation on the
11	Protocol Buffers library and specification explains how easy it is to write into an existing field.
12	See e.g., https://developers.google.com/protocol-buffers/docs/cpptutorial#writing-a-message,
13	referenced in id at Footnote 1.
14	14. According to Google's 30(b)(6) witness, who was deposed after the close of fact
15	discovery, Google created these two Google Incognito-detection bits to "look[] specifically at
16	whether there is an X-Client Data header in the request that is sent." Pls'. Supp. Ex. 3,
17	Sadowski Tr. 76:7-9 (Dkt. 511-4).
18	15. According to this same 30(b)(6) witness, Google sets "is_chrome_non_incognito"
19	to "true" when the X-Client Data header is present. <i>Id.</i> 76:12-16.
20	16. Similarly, Google sets the "is_chrome_incognito" field o "true" when (1) the X-
21	Client Data header is absent and (2) the "user agent" is consistent with a Chrome browser. Id.
22	77:20-78:21.
23	17. On April 1, 2022, also after the close of fact discovery, Google provided Plaintiffs
24	with the following "proto comment" for Google's "is_chrome_incognito" bit:
25	Reply Ex. 1, Apr. 1, 2022
26	Letter from Google Counsel to Special Master Brush (Dkt. 536-2).
27	
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- 18. According to Google's 30(b)(6) witness, who was deposed after the close of fact discovery, a Google employee named Quentin Fiard is one of the people most knowledgeable about the one document Google produced concerning the "is_chrome_non_incognito" field. Pls'. Supp, Ex. 3, Sadowski Tr. 65:3-7 (Dkt. 511-4).
- 19. Google's 30(b)(6) witness testified that she did not know for certain whether the logic used by the "is_chrome_non_incognito" field was cross-platform, explaining that she would need to investigate further and speak with Mr. Fiard about that question. *Id.* Sadowski Tr. 76:5-77:8.
- 20. Google's 30(b)(6) witness also testified that she did not herself search Google's internal code search tool, and that it was Mr. Fiard who provided the list of log sources she included in her notes for the deposition. *Id.* Sadowski Tr. 89:14-90:8.
- 21. Google's 30(b)(6) witness did not identify any documents or persons most knowledgeable regarding the "is_chrome_incognito" field, and instead merely referred to Mr. Fiard as her source of knowledge.
- 22. The following chart contains the Google logs identified by Google that contain the "is_chrome_non_incognito" field:

Google logs containing "is_chrome_non_incognito" field	Date Google began logging field
	[Google has not disclosed]
	[Google has not disclosed]
	[Google has not disclosed]

Pls'. Supp Ex. 2, Sadowski Reference Sheet (Dkt. 511-3).

23. The following chart contains the Google logs identified by Google that contain the "is chrome incognito" field:

Google logs containing "is_chrome_incognito" field	Date Google began logging field
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1	35. On or around March 11, 2021, Google employees drafted a logging proto to
2	implement the field called "maybe_chrome_incognito_do_not_use_
3	without_consulting_ads_identity_team." Reply Ex. 6, Draft Stipulation Regarding Google's
4	Maybe_Chrome_Incognito Field (Dkt. 536-7). The field was a Boolean field, meaning it would
5	have one of only two possible values, represented by either a 1 (for "yes") or a 0 (for "no") in any
6	log field. Thompson Decl. ¶ 20 (Dkt. 536-8).
7	36. On June 17, 2021, Google began logging data with the above
8	"maybe_chrome_incognito" field in logs. Reply Ex. 6, Draft Stipulation Regarding
9	Google's Maybe_Chrome_Incognito Field (Dkt. 536-7).
10	37. On July 4, 2021, Google began logging data with the above

37. On July 4, 2021, Google began logging data with the above "maybe_chrome_incognito" field in additional logs, resulting in logs sources that contain the maybe_chrome_incognito bit. Reply Ex. 6, Draft Stipulation Regarding Google's Maybe_Chrome_Incognito Field (Dkt. 536-7).

38. Google implemented the "maybe_chrome_incognito" Boolean field into the data sources and logs listed below. Reply Ex. 6, Draft Stipulation Regarding Google's Maybe_Chrome_Incognito Field (Dkt. 536-7).

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16	E.	During this Litigation Google Cou	ld Use The 2017 Incognito-Detection

- E. During this Litigation Google Could Use The 2017 Incognito-Detection Bits in Other Google Logs
- 39. Google uses a "Protocol Buffer" data structure to populate fields in various Google logs. Writing to an existing field within a Protocol Buffer data structure is a one-line code addition. Thompson Decl. ¶¶ 18 (Dkt. 536-8).
- 40. The "is_chrome_incognito" and "is_non_chrome_incognito" bits are written in this Protocol Buffer-format, and Google had already built these bits in 2017 and 2018. Pls'. Supp Ex. 2, Sadowski Reference Sheet (Dkt. 511-3).
- 41. Because these bits exist in GWSLogEntryProto, the two bits could have been made "live" at the beginning of the case, or "added" to any GWS log. Put differently, any process within Google that writes to a log using the GWSLogEntryProto data structure need simply write to that specific field. Thompson Decl. ¶¶ 16-18 (Dkt. 536-8).

42. Google's own public documentation on the Protocol Buffers library and specification explains how it is to write existing field. See easy to an https://developers.google.com/protocol-buffers/docs/cpptutorial#writing-a-message, referenced in Thompson Decl. fn. 1 (Dkt. 536-8). The example from Google's documentation involves writing an ID to "person" message, and in C++ it is as simple as "person->set id(id)"; where "id" is the desired value. Thompson Decl. ¶ 19 (Dkt. 536-8).

II. Google's Misconduct

- A. Google Failed to Disclose Relevant Employees Chris Liao, Bert Leung, Mandy Liu, and Quentin Fiard
- 43. On September 30, 2020, Plaintiffs served their first set of Requests for Production on Google (Nos. 1-19). Mot. Ex. 13 (Dkt. 430-14).
- 44. Plaintiffs' RFP No. 11 sought: "Documents sufficient to identify Google's current and former officers, directors, managers, employees and consultants with knowledge of the alleged Google conduct." *Id.* at 14.
- 45. Plaintiffs' RFP No. 12 sought: "Documents sufficient to show the roles and responsibilities of and supervisory relationship between Google's current and former officers, directors, managers, employees and consultants with knowledge of the alleged conduct." *Id.* at 15.
- 46. On October 30, 2020, in response to RFP No. 11, Google agreed to produce "responsive documents sufficient to identify current Google personnel with responsibility for the relevant conduct relating to Google Chrome, Google Analytics, and Google Ad Manager...." *Id.*
- 47. On October 30, 2020, in response to RFP No. 12, Google agreed to produce "responsive documents sufficient to show the roles of current Google personnel with responsibility for the relevant conduct relating to Google Chrome, Google Analytics, and Google Ad Manager, to the extent that such documents exist, are within Google's possession, custody, or control, and can be located following a reasonable search." *Id.* at 16.
- 48. On December 2, 2020, Google placed Chris Liao on a litigation hold for this matter. Liao Decl. ¶ 2 (Dkt. 528-3).

(May 21, 2021 Letter from Plaintiffs' counsel).

27

Forthcoming Ex. (June 21, 2021 Letter from Google's counsel).

In response, Google declined to share such information, unless Plaintiffs agreed not

to seek information concerning 79 other "persons of interest" identified by the Calhoun plaintiffs.

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1	74. On February 5, 2021, Google responded, but Google's letter failed to disclose that
2	Google in fact had been "distinguish[ing] between users who are 'Incognito' from 'non-
3	Incognito" using the "is_chrome_incognito" and "is_chrome_non_incognito" fields since 2017.
4	Nor did Google disclose that, using those Incognito-detection bits, Google could extract relevant
5	data across logs to create a custom log of relevant fields, rather than preserve all logs in their
6	entirety. Instead, Google's February 5, 2021 letter stated:
7	Plaintiffs now ask Google to suspend the regular retention policies of all logs that
8	may record any data from users' private browsing in the United States. Plaintiffs claim that 'it appears necessary to preserve all logs' of logged-in and logged-out users that may
9 10	contain data generated during private browsing sessions 'so that Plaintiffs can evaluate those logs and other data to assess the best way to identify private browsing mode users and the data collected from their private browsing.' Letter at 5. Google disagrees. Plaintiffs' request is grossly disproportionate to the needs of the case.
11	* * *
12	The log data is not reasonably limited by geographic region, by browser, or by
13	browser mode. For that reason, Plaintiffs' preservation request sweeps in a plethora of data for millions of individuals who are not putative class members
14	* * *
15	[T]he sheer size of these logs makes Plaintiffs' demand unworkable. These logs cover and include data reflecting the activity of of users,
16	cover and include data reflecting the activity of many of whom are not putative class members. Google estimates that suspending preservation of these logs—even if possible—would result in an additional
17	preservation of these logs—even if possible—would result in an additional
18	Forthcoming Ex. (Feb. 5, 2021 Letter from Google's counsel at 2).
19	75. Google's representations about the data it was logging and the costs of preservation
20	were misleading. Google's Incognito-detection bits were clearly relevant to these preservation
21	discussions and should have been disclosed.
22	76. On the same day that Google's counsel sent the February 5, 2021 letter to Plaintiffs,
23	Google's counsel was also directly communicating with Bert Leung. Mot. Ex. 7 (email logging
24	communications between Google's counsel and Bert Leung, Dkt. 430-8).
25	77. Google also sent multiple letters declining to produce Plaintiffs' and class member
26	data in response to RFP No. 10, none of which disclosed the existence and use of Google's
27	Incognito-detection bits. For example:
28	15

1	a. On January 21, 2021, without disclosing these Incognito-detection		
2	bits, Google sent Plaintiffs a letter stating that "Plaintiffs' unfounded speculation		
3	about how they might be able to link private browsing data to individual users in		
4	order to identify class members does not justify producing user-level data in		
5	response to RFP No. 10." Forthcoming Ex. (Jan. 21, 2021 Letter from Google's		
6	counsel).		
7	b. On February 18, 2021, without disclosing these Incognito-detection		
8	bits, Google sent Plaintiffs a letter representing that "logged-out private browsing		
9	data is not linked or reasonably linkable to a specific consumer." Forthcoming Ex.		
10	(Feb. 18, 2021 Letter from Google's counsel).		
11	78. On March 23, 2021, Plaintiffs and Google filed a joint letter brief concerning		
12	Google's refusal to suspend its routine deletion period for any logs. Dkt. 119.		
13	79. Without disclosing the existence and use of Google's Incognito-detection bits to		
14	the Court, Google argued that the "Disputed Logs record of entries a day" and that		
15	"suspending preservation of these logs would require storing		
16	," which would take "		
17	"Id. at 4. In other words, Google represented that preserving relevant data		
18	would require preserving logs in their entirety.		
19	80. In connection with that briefing, Google did not at any time disclose that (1) it had		
20	been using the "is_chrome_incognito" and "is_chrome_non_incognito" fields in Google logs since		
21	2017; (2) Google engineers had received approval to log another field called		
22	"maybe_chrome_incognito" to identify Incognito traffic; and (3) using such fields would allow		
23	Google to construct a custom log and only preserve a smaller percentage of the logged data.		
24	81. On April 23, 2021, the parties submitted a joint letter brief on various discovery		
25	disputes, including Google's refusal to produce data in response to RFP No. 10. Dkt. 140.		
26	82. Without disclosing the existence and Google's use of these Incognito-detection bits		
27	to the Court, Google represented in that brief: "Plaintiffs' request for Google to produce 'browsing		
28	16		

data where the X-Client-Data header is and is not present' is unworkable" and that "the absence of the header *cannot* be used to ascertain purported class members as it would improperly include *all* users browsing on a non-Chrome browser" *Id.* at 5 (emphasis in original).

- 83. In connection with that briefing, Google did not at any time disclose that since at least 2017, it had been identifying Incognito traffic with the "is_chrome_incognito" bit using two criteria: (1) the absence of the X-Client-Data header and (2) a user agent string consistent with the Chrome browser that excluded users browsing on non-Chrome browsers that would otherwise not send an X-Client Data header. Pls'. Supp. Ex. 3, Sadowski Tr. 77:20-78:2 (Dkt. 511-4).
- 84. Nor did Google disclose that these bits were already in Google's GWSLogEntryProto, and could be enabled for any GWS log using the GWSLogEntryProto schema. Thompson Decl. ¶¶ 16-18 (Dkt. 536-8).
- 85. On April 29, 2021, the Court held a joint discovery hearing in the *Brown* and *Calhoun* matters. The Court ruled during the *Calhoun* portion of the hearing that, "based on the facts before the Court, Google need not suspend its standard retention periods applicable to data logs that reflect event-level data of Chrome users in the United States" and that "[t]his order is without prejudice to challenge based upon new evidence not currently before the Court." Apr. 29, 2021 *Callhoun* Hr'g Tr. 21. The Court adopted that *Calhoun* order in this case by reference. Dkt. 147-1.
- 86. During the *Brown* portion of the hearing, the Court asked Google whether the Court correctly understood Google's arguments against producing data in response to RFP No. 10:

Okay. So we can start with the as – and I appreciate Google's argument, which I looked at carefully as set forth in the additional page of briefing, as to – you know, just to sum it up, that these don't – that these don't link up, just to not give full credit, but that's – that's how I – that's my take away from the argument.

And that when you're looking at these various components like the X-Client Data field in a header log, just because that's empty doesn't mean that they were in incognito mode because sometimes that information is transferred and sometimes it's not.

I also understand that – the argument that with regards to the special cookies or identifiers for – that Google uses when someone is browsing, but not logged in to their account, that when that browsing session comes to an end, Google says, well, that – then those cookies disappear.

2	So my first question is – I appreciate the statements. Has that – is that Google's position? Is there any evidence that supports those conclusions yet in the record, either through deposition or responses?		
3	Apr. 29, 2021 Brown Hr'g Tr. 15-16.		
4	87. In response to the Court's question, Google did not disclose that it had been		
5	identifying Incognito traffic with an "is_chrome_incognito" bit based on (1) the absence of the X-		
6	Client Data Header and (2) a user-agent string indicating a Chrome browser since at least 2017.		
7	Id.		
8	88. Addressing Plaintiffs' RFP No. 10 seeking "[d]ocuments sufficient to identify all		
9	alleged class members," and Plaintiffs' proposal to focus on data where the X-Client Data Header		
10	is missing, Google's counsel represented to the Court that it had no way to query its data to locate		
11	private browsing sessions:		
12	[W]e felt like there's quite a lot of speculation on behalf of [Plaintiffs' counsel] and we		
13	wanted to explain to you that this is actually not something that we just have or can quickly query, nor do we think their proposed path is one that will lead to that outcome.		
14	Apr. 29 Hr'g Tr. 20:1-6.		
15	[W]e do not have the information to identify the plaintiffs' private browsing sessions. I know [Plaintiffs' counsel] doesn't like that, but that is the reality.		
16	Apr. 29 Hr'g Tr. 24:1-13.		
17	I'm going to say, we don't track people in private browsing mode.		
18	Apr. 29 Tr. 25:20.		
19	89. Google repeatedly misrepresented to Plaintiffs and the Court that preserving		
20	relevant data would require preserving the logs in their entirety and that Google had no method of		
21	readily querying private browsing data.		
22	C. Google Failed to Comply with Multiple Court Orders to Produce Plaintiffs' Data and Identify Relevant Data Sources		
23	1. The Court's April 30, 2021 Order Re: Production of Plaintiffs' Data		
24	90. During the <i>Calhoun</i> portion of the April 29, 2021 hearing, the Court noted:		
25	I think that the request is appropriate for Google to turn over the information it has on the		
26	named plaintiffs, the profile data, and if there is more robust profile data that is created for Google employees and that – that would seem to be the appropriate level of production,		
27	along with the device data, whether or not it's – whether or not it can authenticate it's only		
28	18		

authenticated data (data Google receives when a user is logged into their Google Account)." Pls.' Oct. Sanctions Mot. Ex. I (Dkt. 292-10).

- 2. The Court's September 16, 2021 Order Re: Production of Plaintiffs' Data
- 105. On September 16, 2021, the Court issued a further order concerning Google's production of data and the Special Master process. That order outlined three steps that the parties were to follow under the supervision of the Special Master (Dkt. 273 at 1-2).
 - a. *First*, by "September 17, 2021, Google will identify to the Special Master and Plaintiffs all databases and data logs (collectively, 'data sources') that may contain responsive information." *Id.* at 1. The Court further directed that "[f]or each data source, Google will provide, at a minimum" the "name of the database or data log," "a description of the data source's purpose and function," and various categories of information about the logs' retention. *Id.* at 1-2.
 - b. *Second*, for data sources that Plaintiffs selected to be "subject to searches and production for responsive records," Google "will provide at a minimum: (1) the data schema; (2) definitions and descriptions of each field; (3) tool(s) which Google employees ('Googlers') use to search each data source; and (4) instruction sets and manuals for all tools identified as being used by Googlers to search any data source identified in this step"
 - c. *Third*, the "Special Master will supervise a meet and confer with the Parties to create search strings for each data source and agree upon a production format. The Special Master will officiate and resolve disputes." *Id.* at 2.
 - d. The Court noted its expectation "that the productions that will result from this process will be completed by the October 6, 2021 deadline previously ordered by this Court...." *Id*.
- 106. Google failed to comply with Step 1 of the Court's September 16, 2021 Order, which made it impossible to carry out Steps 2 and 3.

107. In connection with Step 1, Google failed to identify (a) any of the logs in which
the "is_chrome_incognito" and "is_chrome_non_incognito" fields had been logged since 2017 and
(b) all but of the logs in which the "maybe_chrome_incognito" fields had been logged since
June and July 2021.
108. Plaintiffs nevertheless requested that Google run searches against the logs it did
identify. Google refused to run the following searches:
Google does not agree to search for or produce Biscotti or Zwieback identifiers associated with [Plaintiffs'] IP addresses because such a production would include information associated with users who are not Plaintiffs and who have not consented.
Google does not agree to search for or produce Biscotti or Zwieback associated with [specific device identifiers] because such a production would include information associated with users who are not Plaintiffs and who have not consented.
Pls.' Oct. Sanctions Mot. Ex. F (Dkt. 292-7).
109. On October 14, 2021, Plaintiffs filed a Motion Seeking Relief for Google's Failure
to Obey Discovery Order (Dkt. 292). Plaintiffs' motion sought "compliance with the Court's April
30 Discovery Order or, in the alternative, an order establishing certain facts and precluding
Google from opposing class certification or making other arguments in this case in connection
with the withheld materials." <i>Id.</i> at 1.
110. The Special Master subsequently informed the Court of his plan to issue a Report
and Recommendation regarding certain disputes, and the Court stayed further briefing on
Plaintiffs' Motion "pending resolution of the issues set forth in the forthcoming Report and
Recommendation" (Dkt. 297).
111. On October 20, 2021, the Special Master issued his Report and Recommendation,
finding as a "fact" that Plaintiffs' data had "not yet been fully produced" (Dkt. 299 \P 53).
3. The Court's November 12, 2021 Order Regarding Production of Plaintiffs'
<u>Data</u>112. On November 12, 2021, the Court issued an order concerning the Special Master's
Report and Recommendation. On <i>de novo</i> review, the Court upheld the Special Master's factual
finding that Google had not produced Plaintiffs' data:
imanig and coogie had not produced I familia dua.

[T]he Court finds that the Special Master's factual conclusions regarding the deficiencies in Google's production of information about searches conducted to date as well as production of Plaintiffs' and putative class data . . . are well founded and adopts those findings. As previously noted by this Court, Google knows what data it has collected regarding Plaintiffs and putative class members and where the data may be found, therefore Google must produce the information and data as directed herein.

(Dkt. 331 at 3).

- overruled Google's objections to "overbreadth and burden." *Id.* at 4. The Court noted that to the extent the order "requires the significant commitment of time, effort, and resources across groups of engineers at Google on very short timelines, that burden is in proportion to the demands of these class litigations and arises, at least in part, as a result of Google's reticence thus far to provide critical data source information in these actions." *Id.* at 4-5. The specifics of the process directed by the Court's order were as follows:
 - a. The Court ordered that "Google shall provide a declaration, under penalty of perjury from Google, not counsel, that 1. To the best of its knowledge, Google has provided a complete list of data sources that contain information relevant to Plaintiffs' claims; and 2. All responsive data related to the Named Plaintiffs have been produced from all searched data sources in the respective prior searches"
 - b. The Court further ordered that "within four days of the date of this Order Google is to provide to the Special Master full schemas, a list of ALL fields with their descriptions" and other information for "data sources Plaintiffs specify" from the "list of potentially relevant data sources provided by Google . . . " *Id.* at 8. In other words, full schema should have been provided by no later than November 16, 2021.
 - c. The Court's order permitted Plaintiffs to propose "search terms" to the Special Master within "two days of Google's compliance" with the requirement to produce full schema. *Id.* The Court anticipated this would occur by November 18, 2021. The Court's order required Google to complete the search and provide results to the Special Master "within three days," *i.e.*, by November 21, 2021.

- d. The Court ordered that Plaintiff could then conduct up to three additional, iterative searches, in which (1) Plaintiffs would submit updated search criteria within "two days of receipt of productions" and (2) Google would produce search results "within three days of being provided with updated search criteria . . ." *Id*. Based on these timelines, the Court's order contemplated that the iterative search process and Google's productions would be complete by no later than the end of December 2021.
 - i) Google Files Golueke Declaration Without Disclosing All Logs Containing Incognito-Detection Fields
- 114. On November 18, 2021, Google filed the Court-ordered declaration, signed by Andre Golueke, a Discovery Manager within the Legal Department at Google (Dkt. 338 at 1).
- 115. The Golueke declaration filed by Google stated: "To the best of my knowledge and informed understanding, Google has provided a complete list of sources that contain information about Plaintiffs relevant to Plaintiffs' claims. The data sources are listed in Exhibit A." Golueke Decl. ¶ 3 (Dkt. 338).
- 116. This statement, as Google now concedes, was false. Exhibit A to Mr. Golueke's declaration, filed by Google, did not include (1) any of the logs in which Google has logged "is_chrome_incognito" and "is_chrome_non_incognito" fields since 2017 and (2) of the logs in which Google has logged the "maybe chrome incognito" field since June and July 2021.
- 117. The Golueke declaration filed by Google further stated: "To the best of my knowledge and informed understanding, Google either has or is in the process of producing all responsive and relevant data related to the Named Plaintiffs—or to pseudonymous identifiers Plaintiffs provided—from respective prior searches of those data sources." Golueke Decl. ¶ 4 (Dkt. 338).
- 118. This statement, too, was false. Google had not even begun notifying publishers whose consent Google contends it requires to produce Plaintiffs' data. Forthcoming Ex. (Apr. 15, 2021 Email from Google Counsel to Special Master Brush). As of the date of the evidentiary

1	hearing on Plaintiffs' Motion (April 21, 2022), Google has still not completed its notification of
2	such publishers, or Rounds Two or Three of the iterative searches ordered on November 12, 2021,
3	and Google anticipates it will only be in a position to complete production of a subset of Plaintiffs'
4	data from "priority" publishers by May 20, 2022. Id. That date falls well over a year after the Court
5	ordered Google to produce all of Plaintiffs' data and coincides with the deadline for rebuttal expert
6	reports in this case.
7	119. Exhibit A to the Golueke declaration disclosed just of the logs in which
8	Google had implemented the "maybe_chrome_incognito" field: (1)
9	
10	ii) Google Provides Schema Without Disclosing Incognito-Detection Fields
11	120. On December 2, 2021, Google provided schema for the logs containing the
12	"maybe_chrome_incognito" field, but without disclosing the existence of the
13	"maybe_chrome_incognito" field. Reply Mao Decl. ¶ 4 (Dkt. 536-1).
14	121. The schema Google produced did not reflect the "maybe_chrome_incognito" field
15	in either log. Rather than produce the "full schemas" and a "list of ALL fields with their
16	descriptions," as the Court ordered, Google only produced field names for the "100 largest fields"
17	in the logs with the "maybe_chrome_incognito" field. Reply Mao Decl. ¶ 4 (Dkt. 536-
18	1).
19	122. Google's unilateral decision to provide only some of the fields, contrary to the
2021	Court's prior order, ensured that Google could continue to conceal the "maybe_chrome_incognito"
22	field, as the field is expressed in a Boolean bit which requires less storage than any numerical
23	integer. Thompson Decl. ¶ 20 (Dkt. 536-8).
24	123. The Court finds that Google could and should have provided a more complete
25	version of the schema for any logs that included the maybe_chrome_incognito bit but that Google
26	chose not to. For certain other logs that apparently do not include an "incognito" field, Google
27	initially produced more than the 100 largest fields. For instance, on September 24, 2021, Google
28	26

1	identified fields in its log, for the , and fields for
2	. Opening Mao Decl. ¶ 19 (Dkt. 430-1); Reply Mao Decl. ¶ 5 (Dkt. 536-1). In March 2022, after
3	Plaintiffs filed their Sanctions Motion, Google promptly provided a more complete schema for the
4	logs that contain the maybe_chrome_incognito bit. Reply Mao Decl. ¶¶ 5-6 (Dkt. 536-1).
5	iii) Google Employee Liao Does Not Disclose Incognito-Detection Fields
6	124. On December 3, 2021, the day after Google produced incomplete schema for the
7	identified logs with the "maybe_chrome_incognito" field, Plaintiffs deposed Chris Liao.
8	125. As his subordinates were refining their Incognito detection efforts, Mr. Liac
9	testified that Google abandoned any efforts to identify Incognito traffic within its logs. When
10	asked if Google "explore[d] whether or not you would use the X-Client Data header as a signal"
11	for detecting Incognito traffic and "what was the conclusion on that?" Mr. Liao responded: "Yes
12	We did explore the use of [X-Client-Data Header]. In the end it was determined that the
13	accuracy of using that header as the indication for incognito mode is rather low." Mot. Ex. 8, Liao
14	Tr. 136:2-11 (Dkt. 430-9). Mr. Liao likewise testified:
15 16	[T]here was discussion around proxy signals that we can use to approximate incognite traffic. However, we were not able to identify any definitive or reliable signal to identify incognito mode in the end.
17 18	Mot. Ex. 8, Liao Tr. 133:23-134:3 (Dkt. 430-9).
19	[I]t was determined that there was no reliable way to technically detect incognito in a definitive and reliable and accurate manner. And as a result, no further action was taken
to build such a hypothetical signal.	to build such a hypothetical signal.
21	<i>Id.</i> 134:15-20 (emphasis added).
22	As I stated before, we do not have a reliable <i>signal to infer incognito</i> mode at this time we
same set of signals from the logs.	receive an ad query. And as a result, we are also unable to infer incognito mode using the same set of signals from the logs.
24	Id. 140:6-10 (emphasis added).
25	126. In fact, Google was by that time using the undisclosed Incognito-detection bits with
2627	the X-Client-Data Header to log traffic as "incognito" within at least logs, including in (i) the
28	27

1	logs that Chris Liao was directly involved in for the maybe_chrome_incognito bit and
2	(ii) at least logs for the "is_chrome_incognito" bit where the proto comments say
3	(saying nothing about any
1	inaccuracy). See Reply Ex. 1, Letter from Google's counsel (Dkt. 536-2).
5	127. Mr. Liao now attempts to justify his sworn testimony by stating that (i) he
5	unilaterally interpreted the word "signal" to require that it must be "reliable" and for a "dedicated
7	purpose" and (ii) he would therefore use the term "heuristic" rather than "signal" to describe
3	Google's logging of Incognito traffic. Liao Decl. ¶¶ 5, 7, 13 (Dkt. 528-3). But the only example
)	he gives concerning the purported inaccuracy of the maybe_chrome_incognito signal would make
10	it over-inclusive. Nothing in his declaration refutes Plaintiffs' assertion that the bit accurately
11	identifies incognito traffic and that the traffic can be flagged and preserved.
12	128. The Court finds that Mr. Liao's December 3, 2021 deposition testimony was at bes
13	misleading.
14	III. <u>Discovery of Google's Misconduct</u>
15	129. On November 24, 2021, Google produced an email concerning Mr. Leung and hi
16	work to identify Incognito traffic. In that July 2020 email, Mr. Leung discussed a "log analysis o
17	Chrome Incognito" and identified particular logs that Mr. Leung was studying for thi
18	analysis. Mot. Ex. 18, GOOG-CABR-05280756 (Dkt. 430-19).
19	130. One of logs that Mr. Leung was studying, the
20	been disclosed to Plaintiffs through the Special Master process. Plaintiffs promptly identified thi
21	missing log for the Special Master. After reviewing the documents, the Special Master directed
22	Google to produce the log schema and to run searches of the log. Opening Mao Decl. ¶ 28 (Dkt
23	430-1); Forthcoming Exhibit (Dec. 21, 2021 Email from Mr. Schmidt to Google's counsel)
24	Special Master Brush thus overruled Google's objection that the log was irrelevant to Plaintiffs
25	claims insofar as it was a "Search" log. 1
26	
27	¹ Plaintiffs take the position that the log is also a display ad log. <i>See</i> Dkt. 371 at 14 & n.4.
28	28

- 131. Given the clear relevance of Mr. Leung's log analysis, Plaintiffs then asked Google to produce custodial documents from Mr. Leung's files, with a more limited set of search terms and time period than was used for other custodians (Dkt. 399). Google objected, principally contending that Plaintiffs could not show "good cause" to add another custodian above the limit the Court had previously set. *Id.* Plaintiffs responded that Google had never disclosed Mr. Leung as a potential custodian with relevant information and likewise delayed in producing documents about his role in the Incognito detection analysis. *Id.*
- 132. The Court agreed with Plaintiffs, ordering Google to provide hit counts for the limited set of search terms that Plaintiffs requested (which Google had previously refused to provide to Plaintiffs) (Dkt. 401). When Google did that, it turned out that Plaintiffs' proposal hit on just documents, and Google shortly thereafter made a production from Mr. Leung's custodial files. Opening Mao Decl. ¶ 5 (Dkt. 430-1).
- 133. Google's February 18, 2022 production of documents from Mr. Leung's files showed, for the first time, that Google had actually implemented "maybe-chrome-incognito" in Google logs. Mot. Ex. 9, GOOG-BRWN-00845312 at -18 (Dkt. 430-10) (Leung: "are we already logging maybe-chrome-incognito in search already?" Liu: "yes").
- 134. Shortly after making this production to Plaintiffs, Google unilaterally insisted that Mr. Leung's scheduled February 25, 2022 deposition be moved to March 4, 2022—the final day of fact discovery. Opening Mao Decl. ¶ 25 (Dkt. 430-1 ¶ 25).
- 135. Mr. Leung's custodial documents also revealed that Google engineer Mandy Liu was centrally involved in Google's efforts to develop and implement maybe_chrome_incognito. *See* Mot. Exs. 22-24 (Dkts. 430-23 to 430-25) (instant messages between Mr. Leung and Ms. Liu).
- 136. After reviewing Mr. Leung's documents, Plaintiffs promptly moved to compel Google to produce custodial documents from the files of Ms. Liu, again using limited search terms and time periods. Over Google's objection, this Court ordered production of Ms. Liu's custodial documents and permitted Plaintiffs to depose her for two hours, notwithstanding that Plaintiffs had already selected all twenty of their allotted depositions. Dkt. 437.

On March 2, Google produced documents from Ms. Liu's files.

maybe chrome incognito such that it now matches the "expected 3.08%" that Google considers

Ms. Liu's documents established that Google perfected the accuracy of

1

2

3

137.

138.

430-1). Google did not produce the updated version of the plan document until January 31, 2022. *Id.* Google provided no explanation for withholding that updated document. Reply Mao Decl. ¶ 10 (Dkt. 536-1).

152. Other documents cited by Google (Trebicka Decl. Ex. 12, GOOG-CABR-00901891, Trebicka Ex. 17, GOOG-CABR-03669472, Trebicka Ex. 18, GOOG-CABR-03669574 (Dkt. 528-7)) all indicated that this "data source factory will be implemented and registered in a subsequent CL," suggesting it had not yet been implemented. That language, combined with the way "Maybe Chrome Incognito bit" was written in the document (not in the other way it is typically expressed as a field named "maybe_chrome_incognito") made it appear that a decision had not been finalized on whether to log an incognito bit.

B. Google's Contentions Regarding Reliability of These Bits

- 153. Google asserts that its Incognito-detection bits are "unreliable" and only used for "approximation of aggregate Chrome Incognito traffic" (Opp. at 1-2), but those Google assertions do not excuse or justify Google's discovery misconduct.
- 154. Had Google identified the Incognito-detection bits and provided discovery focused on those bits, the reliability of Google's Incognito-detection bits is something the parties could have further explored in discovery, including through expert discovery.
- 155. Google's Incognito-detection bits use more than just the absence of the X-Client-Data header (FOF ¶¶ 16, 140-41), and Google misled the Court, the Special Master, and Plaintiffs by relying on prior rulings concerning just the absence of the X-Client-Data header (especially given that Google had not disclosed the existence of these Incognito-detection bits with those prior rulings).
- 156. Google cites the Special Master's denial of Plaintiffs' request for a sample of data where the X-Client-Data header was missing (Opp. at 7, citing Dkt. 299), but that issue was briefed and decided without Google disclosing or addressing these Incognito-detection bits.
- 157. Plaintiffs' experts have determined that these Incognito bits can be used to reliably identify Incognito traffic (see Thompson Decl. ¶¶ 8-16 (Dkt. 536-8)), and it is prejudicial for

1	Google to make assertions regarding the reliability of these Incognito-detection bits after
2	withholding relevant discovery concerning the bits.
3	C. Google's Contentions Regarding Its Use of These Bits
4	158. Google's contentions regarding its limited use of two of the Incognito-detection
5	bits (is_chrome_incognito and is_chrome_non_incognito) in certain "logs" (Opp. at 12
6	13) do not justify or excuse Google's discovery conduct regarding those bits.
7	159. First, as bits specifically designed by Google to distinguish Chrome traff
8	originating from Incognito mode from traffic coming from non-Incognito mode, these two bi
9	were very clearly relevant to the issues in this litigation, consistent with FRCP 26.
10	160. Second, it is reasonable to believe that many putative class members could vis
11	non-Google websites by first searching on Google.com, which makes Google records identifying
12	searches in Incognito relevant to identifying class members.
13	161. Third, Google's decision to withhold discovery regarding those Incognito-detection
14	bits means that the Court (and Plaintiffs) cannot fully or adequately assess (and test) Google
15	assertions regarding any limited use of those bits.
16	162. Fourth, Google's assertions regarding any limited use of those bits does not account
17	for the fact that Google created these two Incognito-bits in GWS, which meant that Google could
18	use these bits with all GWS logs, not just the logs. Thompson Decl. ¶¶ 16-18 (Dkt. 530)
19	8).
20	163. The Court rejects Google's claim that discovery on these bits was "entired
21	irrelevant." Opp. at 14.
22	D. Google's Contentions Regarding Limited Production of Documents Involving These Employees
23	164. Google asserts that Plaintiffs should have identified Mr. Liao, Mr. Leung, and M
24	Liu as custodians based on other Google productions (Opp. at 11), but those productions do no
25	excuse Google's omission of those individuals from Google's prior discovery responses.
26	
27	

- 165. Google should have identified Mr. Liao, Mr. Leung, Ms. Liu, and Mr. Fiard in the list of individuals provided in February 2021 and in its March 2021 interrogatory response (*see* FF ¶¶ 44-55, 60 (non-disclosure), ¶¶ 18-21(Fiard as responsive to ROGs) ¶¶ 27-32, 131-36 (Leung as responsive to ROGs), ¶¶ 27-32, 137-42 (Liu as responsive to ROGs), ¶¶ 27-32, 61 (Liao as responsive)), and it is not enough to just point to other documents in Google's productions.
- 166. Google's omission of those employees was inconsistent with this Court's instruction that there should be "no hiding the ball." June 2, 2021 Hr'g Tr. 52.

E. Google's Contentions Regarding Production of an Employee List in *Calhoun*

- 167. Google asserts that it made certain disclosures in *Calhoun* that should have caused the *Brown* Plaintiffs to identify these individuals sooner (Opp. at 11), but those disclosures in *Calhoun* provide no justification for Google withholding that information in *Brown*.
- 168. While Mr. Liao was selected as a custodian in *Calhoun*, Google opposed efforts by the *Brown* Plaintiffs to obtain that information. *See* FF ¶¶ 57-62.
- 169. Google only cross-produced the *Calhoun* list (identifying Chris Liao, Bert Leung, and Mandy Liu, but not Quentin Fiard) in *Brown* on September 1, 2021, after the August 24 deadline set by the Court for identification of custodians in *Brown*.
- 170. Metadata from the *Calhoun* list indicates it had been created by Google on January 20, 2021, but it was not shared with the *Brown* plaintiffs until September 1, 2021.
- 171. That document listed Mandy Liu, Bert Leung, and Chris Liao, but it did not disclose their work on Google's development of the "maybe_chrome_incognito" field.
- 172. That document also did not identify Quentin Fiard, whom Google's 30(b)(6) representative (after the close of fact discovery) identified as knowledgeable on the 2017 "is chrome incognito" and "is chrome non incognito" fields.
- 173. Google has provided no explanation for why it did not disclose those witnesses to the *Brown* Plaintiffs in (a) its February 2021 custodian list in response to RFP Nos. 11-12 or (b) its March 2021 response to Interrogatory No. 4. Nor has Google provided *any* explanation for its failure to disclose Mr. Fiard.

F. Google's Contentions Regarding Mr. Golueke's Declaration

- 174. On November 18, 2021, in response to the Court's order, Google submitted the sworn declaration of Mr. Golueke listing certain data sources. Dkt. 338.
- 175. With its response to Plaintiffs' Sanctions Motion, Google submitted a declaration by Mr. Golueke admitting that he "was not aware" that "the maybe_chrome_incognito[]bit existed" or that "logs contained fields labeled 'is_chrome_incognito' or 'is chrome non incognito mode." Dkt. 528-5 ¶¶ 10-11.
- 176. Google's counsel also submitted a declaration (Dkt. 528-1), and Google's counsel does not deny that it was aware of these facts when Google submitted this sworn declaration to the Court in response to the Court's order.
- 177. Mr. Golueke's declaration should have included a complete list of data sources Google has used (and was using at the time) to distinguish Incognito traffic from non-Incognito traffic, so that those data sources could be further investigated as part of the Special Master process.
- 178. The Court finds that the missing logs were relevant to the process of identifying class members. Google should have included the missing logs in response to the Court's order.
- 179. These findings are confirmed by the fact that the Special Master rejected Google's argument that the Mr. Leung used in the Incognito detection analysis was outside the scope of this case and subsequently required Google to include it.

G. Google's Contentions Regarding Mr. Liao Testimony

- 180. On December 3, 2021, Mr. Liao testified that Google had no "reliable signal to infer incognito mode" and as a result was "unable to infer incognito mode using the same set of signals from the logs." Mot. Ex. 8, Liao Tr. 140-6-10 (Dkt. 430-9). Mr. Liao did not identify the maybe_chrome_incognito bit or any other incognito-detection bit. *Id*.
- 181. Mr. Liao seeks to justify his response by stating that he interpreted the word "signal" to require that a signal must be for a "dedicated purpose" and that he would use the term "heuristic" rather than "signal" for the maybe_chrome_incognito bit. Liao Decl. ¶¶ 5, 7, 13 (Dkt. 528-3).

1	182.	In the context of the questions asked, Mr. Liao could and should have revealed the		
2	existence and Google's use of the maybe_chrome_incognito bit, with which he was intimated			
3	involved.			
1	Н.	Google's Data Schema Contentions		
5	183.	Google's Opposition also provides no justification for its omission of the Incognito		
5	detection bits from its schema productions.			
7	184.	Google nowhere claims that it was unaware of these Incognito-detection bits at the		
3	time that it was producing data schemas to the Special Master and Plaintiffs.			
)	185.	Google could have readily identified these Incognito-detection bits for the Specia		
10	Master and Plaintiffs along with the "largest 100 fields" in those data sources.			
11	186.	The fact that Google produced more than 100 fields for sources that did not include		
12	the Incognito-detection bits (along with the other evidence) supports an inference that Goog			
13	concealed the existence of these bits.			
14	187.	The fact that Google was able to quickly produce more comprehensive schema for		
15	the logs containing the "maybe_chrome_incognito" field after Plaintiffs moved for sanction			
16	supports an inference (along with the other evidence) that Google concealed the existence of these			
17	bits.			
18	V. Plaint	iffs Have Been Prejudiced by Google's Discovery Misconduct		
19	188.	The Court finds that the discovery and evidence at issue was relevant to both		
20	Plaintiffs' claims and Google's defense.			
21	189.	The Court finds that Plaintiffs have been prejudiced by Google's discovery		
22	misconduct in multiple ways.			
23	A.	Plaintiffs Were Unable to Obtain Relevant Documents		
24	190.	Because Google did not identify Bert Leung, Mandy Liu, and Quentin Fiard early		
25	on, they were not included as document custodians during the early part of this case (and Mr. Fian			
26	never became one).			
27				

191.	When Plaintiffs sought documents from Bert Leung and Mandy Liu over Google's			
objections near the end of fact discovery, the productions were based only on limited search terms				
and dates, wh	and dates, where Google objected that production would be unduly burdensome.			
192.	Because Quentin Fiard was not identified by Google until March 10, 2022, during			
the 30(b)(6) d	e 30(b)(6) deposition of Dr. Sadowski, Plaintiffs never obtained his custodial documents.			
193.	Google did not otherwise seek to supplement its productions with all non-custodial			
documents concerning these Incognito-detection bits.				
194.	Google identified no produced documents regarding is_chrome_incognito and only			
one document concerning is_chrome_non_incognito.				
195.	Without further production, it is not possible to identify whom in addition to Mr.			
Fiard might have relevant documents concerning the Incognito-detection bits.				
В.	Plaintiffs Were Unable to Obtain Relevant Testimony			
196.	Had Plaintiffs known about these Incognito-detection bits and had Google			
produced documents concerning them earlier in the case, Plaintiffs could have used such evidence				
during depositions of any number of Google witnesses.				
197.	Plaintiffs also would have been able to identify and depose other individuals with			
knowledge about the Incognito-detection bits, including Mr. Fiard.				
198.	Given the late depositions of Mr. Leung and Ms. Liu, Plaintiffs were unable to			
notice and tak	notice and take additional depositions tied to their testimony.			
199.	Given the late discovery of Ms. Liu's role in developing the Incognito-detection bit			
and given Google's objections to Ms. Liu's deposition, Plaintiffs only had two hours during which				
to depose Ms. Liu.				
C.	C. Plaintiffs Have Been Prejudiced in The Special Master Process			
200.	Google's belated disclosures of these Incognito-detection bits undermined			
Plaintiffs' ability efficiently and timely obtain relevant data through the Special Master process.				
1				

Search 2, Plaintiffs have not yet received any data from any of the logs with the maybe_chrome_incognito bit. *See* Forthcoming Ex. (April 15, 2022 email from Google's counsel to Special Master Brush).

- 202. Similarly, Google has not yet conducted any searches for any logs that contain the is_chrome_incognito or is_chrome_non_incognito bits, nor has Google produced complete schema for any such logs. Reply Mao Decl. ¶ 8 (Dkt. 536-1); April 15, 2022 email from Google's counsel to Special Master Brush). And Google has yet to confirm whether it is withholding any other bits used to detect Incognito traffic. Reply Mao Decl. ¶ 9 (Dkt. 536-1).
- 203. Even if Google produced data now, Plaintiffs and their experts would no longer be able to verify the results.

D. Plaintiffs Have Been Prejudiced in Expert Discovery

- 204. Plaintiffs have also been prejudiced by Google's withholding of discovery related to these Incognito-detection bits in connection with expert discovery.
- 205. The deadline for Plaintiffs to submit opening expert reports was April 15, 2022 (except for Plaintiffs' damages report, which is due on April 22). Dkt. 537.
- 206. Because of Google's discovery misconduct, Plaintiffs did not obtain a complete production of data tied to the Incognito-detection bits (or other Incognito-related logging) for Searches 1 and 2 of the Special Master process.
 - 207. Plaintiffs were forced to submit their expert reports prior to receiving this data.
- 208. Plaintiffs' experts have been unable to fully test these bits while discovery was open. Google has recently represented that data testing the bits would be produced by no later than May 20, 2022, when the parties' rebuttal expert reports are due. Forthcoming Ex. (Apr. 15, 2021 Email from Google Counsel to Special Master Brush). Even if Google produces data on or before May 20, 2022, Plaintiffs and their experts will not be able to verify the results.

E. Plaintiffs Have Been Prejudiced by Google's Spoliation of Data

209. Google has been spoliating data throughout the case, without taking any steps to modify its data retention policies to preserve potentially relevant data.

- 210. Despite Plaintiffs' multiple inquiries about whether a subset of logged data could be identified as Incognito and preserved, Google repeatedly and falsely denied that it was able to do so. Google misled Plaintiffs and the Court by arguing that it would be required to preserve all logs in their entirety, and that doing so would necessarily present an undue burden.
- 211. It now appears that Google was at the same time identifying Incognito traffic, that this traffic represents a tiny fraction of all logged data, and that Google can construct a custom log of only relevant fields. The targeted data Plaintiffs could have requested Google to preserve could have been relevant to identifying class members. It could also have been relevant to showing whether Google's conduct in intercepting Plaintiffs' private browsing information was "highly offensive"—an element of certain of Plaintiffs' claims.
- 212. Should Plaintiffs prevail, absent class members may very well wish to know what data Google collected from their Incognito browsing sessions. And Plaintiffs may need their event-level data to identify what specific algorithms, products, and profits Google made with their data. Yet Google has been deleting such data throughout the case based on a misleading picture it presented to Plaintiffs and the Court concerning what would be required to preserve relevant data on behalf of the class.

F. Plaintiffs Have Been Prejudiced in Terms of Rebutting Google's Contentions

- 213. Google's discovery misconduct has prevented Plaintiffs from fully testing (i) Google's ability to identify Incognito traffic, (ii) the ability to link such traffic to class members' "authenticated" or Google Account data, and (iii) otherwise identify class members.
- 214. Google has repeatedly argued in the case that these things are impossible (including in connection with this Order to Show Cause), but Google has prevented Plaintiffs from fully testing and attempting to refute those propositions via fact and expert discovery.
- 215. By withholding relevant discovery focused on Google's Incognito-detection bits, and at the same time failing to preserve data, Google prejudiced Plaintiffs' ability to fully address the assertions by Google, its counsel, and its witnesses.

litigation practices. Leon v. IDX Sys. Corp., 464 F.3d 951, 958 (9th Cir. 2006).

CONCLUSIONS OF LAW

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delineate under which authority it acts to ensure that the attendant requirements are met." Williams v. Williams, No. 07-4464, 2013 WL 3157910, at *4 (N.D. Cal. June 20, 2013) (citing Weissman v. Quail Lodge, Inc., 179 F.3d 1194, 1200 (9th Cir. 1999)).

2. Federal courts have the power to sanction litigants for discovery misconduct under both the Federal Rules of Civil Procedure and the court's inherent power to prevent abusive

"When a district court decides to impose sanctions or discipline, it must clearly

3. Plaintiffs seek sanctions under Federal Rule of Civil Procedure 37(b), Rule 37(c), Rule 37(e), and the Court's inherent power. The Court begins with Rule 37(b).

I. <u>Federal Rule of Civil Procedure 37(b)</u>

- 4. Under Federal Rule of Civil Procedure 37(b), where a party "fails to obey an order to provide or permit discovery," this Court may impose "whatever sanctions are just . . . up to dismissal of part or all of the party's claims." *Sanchez v. Rodriguez*, 298 F.R.D. 460, 463 (C.D. Cal. 2014).
- 5. Plaintiffs argue that Google violated three discovery orders: (1) the Court's April 30, 2021 order requiring Google to produce all of the named Plaintiffs' "authenticated" or "unauthenticated" data (Dkt. 147-1 at 2); (2) the Court's September 16, 2021 order devising a three-step process for Google to produce the named Plaintiffs' data to be supervised by Special Master Brush (Dkt. 273); and (3) the Court's November 12, 2021 order re-starting the Special Master process with new requirements (Dkt. 331).
 - 6. The Court agrees with Plaintiffs that Google violated all three orders.
- 7. The Court already made factual findings, which Google did not appeal, regarding Google's compliance with the April 30 and September 16 orders. In its November 12 Order, the Court on *de novo* review upheld Special Master Brush's factual finding that the named Plaintiffs' data had "not yet been fully produced." Dkt. 331 at 3. The April 30 order required Google to produce all of the named Plaintiffs' data, and the September 16 order set an October 6, 2021

- 22. The Court rejects Google's claim that this was justified based on feedback provided by the Special Master. Google argues that the Special Master granted Google's request to limit production to the "largest-100 fields" (Opp. at 15), but when Google requested this permission from the Special Master, Google had not yet disclosed the Incognito detection bits to Plaintiffs or the Special Master, let alone inform the Special Master that its limitation proposal would by definition exclude key Boolean fields that detect Incognito traffic. Trebicka Decl. Ex. 35, October 1, 2021 Letter from Google Counsel to Special Master Brush (Dkt. 528-7). Accordingly, Google may not rely on any purported permission from Special Master Brush.
- 23. Having concluded that Google violated three discovery orders, the Court must assess whether and how to sanction Google. Plaintiffs specifically seek three sanctions:
 - 1. Evidentiary sanctions in the form of an order precluding Google from making certain arguments.
 - 2. A jury instruction that "Google concealed and altered evidence regarding its ability to identify Incognito traffic."
 - 3. Reimbursement of all fees that Plaintiffs paid to Special Master Brush.

A. Evidentiary Sanctions Are Warranted

- 24. The Court begins with Plaintiffs' request for evidentiary sanctions. The parties agree that this Court has authority to impose this sanction. Opp. at 17.
- 25. This Court may "prohibt[] the disobedient party from supporting or opposing designated claims or defenses, or from introducing designated matters in evidence." Fed. R. Civ. Proc. 37(b)(2)(A)(ii). "Preclusionary orders ensure that a party will not be able to profit from its own failure to comply." Sas v. Sawabeh Info. Servs., 2015 WL 12711646, at *9 (C.D. Cal. Feb. 6, 2015) (quoting United States v. Sumitomo Marine & Fire Ins. Co., Ltd., 617 F.2d 1365, 1369 (9th Cir. 1980)). "[I]t is entirely reasonable to sanction [Google's] defiance of the [numerous discovery] Order[s] by precluding [it] from presenting evidence on [issues for which Google] ha[s] not provided timely and complete discovery." Id.

- 26. The Court concludes that a preclusion sanction is warranted. As a result of Google's discovery misconduct, Google withheld relevant discovery until the very end of—and even until after the close of fact discovery. Plaintiffs did not get to depose the employees most knowledgeable about the maybe_chrome_incognito bit until March 4 (Mr. Leung, on the last day of fact discovery) and March 8 (Ms. Liu, four days after the fact discovery cutoff). FF ¶ 134-39. Google's 30(b)(6) witness only identified Mr. Fiard on March 10, six days after the close of fact discovery. As a result of Google's misconduct, Google also did not produce any data from any of the fields containing this bit for the only two searches that Google completed within the Special Master process. FF ¶ 142, 208.
- 27. Google argues that Plaintiffs have not suffered any prejudice, claiming that Plaintiffs have now received discovery concerning the maybe_chrome_incognito bit. Opp. at 21-22. But sanctions are warranted regardless of that belated and limited discovery. "[I]t is well-established that '[b]elated compliance with discovery orders does not preclude the imposition of sanctions." Sas v. Sawabeh Info. Servs., 2015 WL 12711646, at *7 (C.D. Cal. Feb. 6, 2015) (quoting North American Watch Corp. v. Princess Ermine Jewels, 786 F.2d 1447, 1451 (9th Cir. 1986)). "As the Ninth Circuit has explained, the '[l]ast-minute tender of documents does not cure the prejudice to opponents." Sas, 2015 WL 12711646, at *7 (quoting Princess Erime Jewels, 786 F.2d at 1451).
- 28. Sanctions are appropriate because Google's withholding of relevant discovery concerning these Incognito-detection bits until the close of discovery (and after) deprived Plaintiffs of "a meaningful opportunity" to "comprehend" complex discovery. *Apple v. Samsung Elecs.* 2012 WL 1595784, at *3 (N.D. Cal. May 4, 2012).
- 29. Google also does not dispute that Plaintiffs received virtually no discovery concerning is_chrome_incognito and is_chrome_non_incognito. FF ¶ 192-95. Google identified just one document alluding to just one of these bits. Opp. at 12 (citing Trebicka Decl. Ex. 15, GOOG-BRWN-00176433 (Dkt. 528-7)). Given the late identification of Mr. Fiard, Plaintiffs also never had an opportunity to seek Mr. Fiard's documents or question Mr. Fiard about these

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Incognito-detection bits. And Google has still not produced any data for these bits. FF ¶ 202, 206-08.

- 30. Having concluded that evidentiary sanctions are warranted, the Court must decide how to sanction Google. Because Plaintiffs do not seek any sanction amounting to a default judgment, the only question is whether the sanction bears "a reasonable relationship to the subject of discovery that was frustrated by sanctionable conduct." Navellier v. Sletten, 262 F.3d 923, 947 (9th Cir. 2001). Google agrees that this standard applies. Opp. at 17.
- 31. The Court exercises its discretion to issue a preclusion sanction and rules that Google is hereby precluded from making any arguments about any Incognito-detection bit for the duration of the case.
- 32. Although there is no ascertainability requirement in the Ninth Circuit for class certification, see Buffin v. City & Cty. of San Francisco, 2018 WL 1070892, at *5 (N.D. Cal. Feb. 26, 2018) (Gonzalez Rogers, J.), Google's Opposition makes clear that it intends to oppose certification primarily on the ground that Plaintiffs cannot identify their class, including by arguing that these Incognito-detection bits are unreliable and cannot be used to identify class members. See Opp. at 7 (describing class member identification as a "dispositive class identification problem" and an "insurmountable obstacle").
- 33. Google's violation of this Court's numerous discovery orders was plainly "designed to achieve a tactical advantage" with respect to Google's strategy, and such "obstruction" should not be permitted to achieve its objectives." Conway v. Dunbar, 121 F.R.D. 211, 214 (S.D.N.Y. 1988). "Where the discovery misconduct has deprived the opposing party of key evidence needed to litigate a contested issue, an order prohibiting the disobedient party from contesting that issue . . . is appropriate." Shanghai Weiyi Int'l Trade Co. v. Focus 2000 Corp., 2017 WL 2840279, at *11 (S.D.N.Y. June 27, 2017).
- 34. Because Google withheld relevant discovery regarding these Incognito-detection bits until the close of fact discovery and after the close of fact discovery, and produced virtually nothing about is chrome incognito and is chrome non incognito, the Court deems it appropriate

- to permit Plaintiffs to use the limited information they have to make their arguments about the reliability of these Incognito-detection bits while precluding Google from making any counterarguments. Google could have complied with this Court's orders and permitted fulsome discovery into these Incognito-detection bits while reserving all of its arguments about their relevance and reliability. Having instead engaged in the discovery misconduct described above, Google lost that opportunity.
- 35. As a result of its discovery misconduct, Google "thwarted [Plaintiffs'] efforts to understand the basis of" Google's class identification arguments, so it is now "appropriate, based on these failures, to preclude [Google] from introducing further facts or evidence in response to these issues." *Lanier v. San Joaquin Valley Offs. Ass'n*, 2016 WL 4764669, at *8 (E.D. Cal. Sept. 12, 2016). Google will otherwise impermissibly benefit from evidentiary gaps that it has created by refusing to comply with this Court's discovery orders.
- 36. This sanction is appropriate despite Google's assertion that this will make it more difficult for Google to oppose class certification. *Craftwood Lumber Co. v. Interline Brands, Inc.*, 2013 WL 4598490, at *13 (N.D. Ill. Aug. 29, 2013) ("Craftwood does not dispute that a preclusion order would leave Interline without a basis for opposing class certification, but notes that this result is of Interline's own making. We agree. The sanction is harsh but warranted").
- 37. This sanction is also consistent with the principle that the sanction should "serve as a general deterrent in both the case at hand and other cases." *Sas*, 2015 WL 12711646, at *10. Google's discovery misconduct cannot be encouraged, and this sanction will appropriately serve as a deterrent both to Google and other parties in other cases.

B. A Jury Instruction Is Warranted

- 38. Plaintiffs also seek a jury instruction that "Google concealed and altered evidence regarding its ability to identify Incognito traffic."
- 39. The Court has found that Google in fact concealed and altered evidence regarding its ability to identify Incognito traffic, including by violating the Court's orders and concealing the

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existence of these Incognito-detection bits and producing incomplete versions of log schema that omitted these Incognito-detection bits. FF ¶¶ 107, 121-23.

- 40. Rule 37(b)(2)(A) "authorizes a court to issue an adverse-inference jury instruction as a remedy when 'bad faith or gross negligence has resulted in either the spoliation of evidence or failure to turn over relevant evidence." First Fin. Sec., Inc. v. Freedom Equity Grp., LLC, 2016 WL 5870218, at *3 (N.D. Cal. Oct. 7, 2016). Google agrees that the Court has authority to impose the sanction that Plaintiffs seek. Opp. at 25.
- 41. Rather than contest the Court's authority to impose such a sanction, Google argues that jury instructions are unwarranted since "Plaintiffs had detailed discovery on the purportedly withheld topic months before showing any interest in pursuing it," and that "once Plaintiffs did start asking questions, Google answered them." Opp. at 25.
- 42. But as discussed above, contrary to Google's assertions, the handful of documents cited in Google's opposition did not confirm the approval and implementation of the maybe chrome incognito bit. FF ¶¶ 147-52. Moreover, Google did not provide any data for any logs with maybe chrome incognito within either Search 1 or Search 2 of the Special Master process. FF ¶¶ 201. Finally, Google has no response to Plaintiffs' argument with respect to the other two Incognito detection bits. Google has to this day produced just one document relating to one of those bits, and Plaintiffs were never able to depose the employee knowledgeable about them. FF ¶¶ 148, 197.
- 43. Google next suggests that only this Court will decide whether class members can be identified, and that a jury instruction is therefore inappropriate. Opp. 25. But information about Google's detection and logging of incognito traffic bears on elements of Plaintiffs' claims, such as the offensiveness of Google's alleged misconduct for purposes of Plaintiffs' invasion of privacy and intrusion upon seclusion claims, and is therefore relevant to issues that will be presented to the jury. See Davis v. Facebook, Inc., 956 F.3d 589, 602-04 (9th Cir. 2020).
- 44. Finally, notably absent from Google's filings is any suggestion that Google's noncompliance with numerous Court orders was due to mere inadvertence. And while Google

submits a declaration from its outside counsel, nowhere does that declaration suggest that counsel were *unaware* of these Incognito-detection bits. While "the court does not need to find bad faith before it issues an adverse-inference instruction as a sanction." *First Fin. Sec., Inc.*, 2016 WL 5870218, at *6, the record certainly suggests bad faith.

- 45. The Court therefore Concludes that, at trial, the jury shall be instructed that "Google concealed and altered evidence regarding its ability to identify Incognito traffic."
 - C. Google Must Reimburse Plaintiffs for all Fees Paid to Special Master Brush
- 46. Plaintiffs also seek reimbursement of all fees Plaintiffs paid to Special Master Brush.
- 47. Having already decided to grant Plaintiffs' Motion, the Court is required to consider monetary compensation. "[T]he court must order the disobedient party, the attorney advising that party, or both to pay the reasonable expenses, including attorney's fees, caused by the failure, unless the failure was substantially justified or other circumstances make an award of expenses unjust." Fed. R. Civ. P. 37(b)(2)(C).
- 48. The Court concludes that Google's discovery misconduct was not "substantially justified" that that there are no "other circumstances [that] make an award of expenses unjust."
- 49. The Court rejects Google's argument that Plaintiffs may only receive compensation for the time and expenses they incurred in filing the Sanctions Motion. Opp. at 25-26. Federal Rule 37(b)(2)(C) requires the offending party to "pay the *reasonable expenses*, *including* attorney's fees, caused by the failure." (emphasis added); *see also Sali v. Corona Reg'l Med. Ctr.*, 884 F.3d 1218, 1225 (9th Cir. 2018) (affirming sanctions for costs associated with court-ordered deposition). Google's interpretation reads "including" right out of the Rule.
- 50. Here, Google's compliance with the Court's prior orders would have significantly streamlined the Special Master process, including by identifying logs to search. Google's violations of the Court's order made the whole Special Master process far more time consuming and expensive than it needed to be, and also less productive.

51. The Court therefore orders Google to reimburse Plaintiffs for all of the fees they have paid and will pay to Special Master Brush. In addition, consistent with Rule 37, Google must pay all attorneys' fees and costs incurred by Plaintiffs in filing the Sanctions Motion, including expert consultant and witness fees. Within 14 days of this Order, Plaintiffs must submit to the Court their request for reimbursement.

II. Federal Rule of Civil Procedure 37(c)

- 52. Plaintiffs are also entitled to sanctions under Federal Rule of Civil Procedure 37(c). This Rule provides: "If a party fails to provide information or identify a witness as required by Rule 26(a) or (e), the party is not allowed to use that information or witness to supply evidence on a motion, at a hearing, or at a trial, unless the failure was substantially justified or is harmless." Fed. R. Civ. P. 37(c)(1). Federal Rule of Civil Procedure 26(e) in turn requires that any party "who has responded to an interrogatory . . . must supplement or correct its disclosure or response ...in a timely manner if the party learns that in some material respect the disclosure or response is incomplete or incorrect, and if the additional or corrective information has not otherwise been made known." Fed. R. Civ. P. 26(e)(1)(A).
- 53. Courts have "particularly wide latitude" to issue sanctions under Rule 37(c)(1). *Yeti by Molly, Ltd. v. Deckers Outdoor Corp.*, 259 F.3d 1101, 1106 (9th Cir. 2001). Unlike Rule 37(b), it is not necessary for the Court to find that a violation of a court order has occurred because Rule 37(c)(1) is self-executing. *Id.* Google, "[t]he party facing sanctions[,] bears the burden of proving that its failure to disclose the required information was substantially justified or is harmless." *R&R Sails, Inc. v. Ins. Co. of Penn.*, 673 F.3d 1240, 1246 (9th Cir. 2012).
- 54. Sanctions are appropriate under Rule 37(c) because Google failed to disclose Chris Liao, Bert Leung, Mandy Liu, and Quentin Fiard in response to Plaintiffs' interrogatory asking Google to identify employees "with responsibility for or knowledge of . . . Google's collection of and use of data in connection with users' activity while in a private browsing mode." FF ¶¶ 44-47, 51-55. Google never amended that Interrogatory response. Nor does Google's Opposition even attempt to explain why Google omitted these employees from its interrogatory response. With

respect to Mr. Fiard, Google only identified him on March 10, after the close of fact discovery. FF ¶¶ 143, 192.

- 55. Based on Federal Rule 37(c), the Court now precludes Google from relying on any testimony from Mr. Fiard or any other employees who were not identified in response to Plaintiffs' interrogatory.
- 56. In addition, Rule 37(c)(1)(A)-(B) permits the court to "order payment of the reasonable expenses, including attorney's fees, caused by the failure"; "inform the jury of the party's failure"; and "impose other appropriate sanctions, including any of the orders listed in Rule 37(b)(2)(A)(i)—(vi)."
- 57. Google's failure to identify these employees in response to Plaintiffs' interrogatory (Liao, Leung, Liu, and Fiard) provides independent support for the Court's order requiring Google to reimburse Plaintiffs for all fees paid to Special Master Brush. Timely identification by Google of the employees responsible for the Incognito-detection bits would have led to the discovery of those bits and thus significantly streamlined the Special Master process, including by identifying logs that should have been searched, and also could have resulted in preservation of relevant data. Google's misconduct made the whole Special Master process far more time consuming and expensive than it needed to be and also far less productive and comprehensive.
- 58. For the reasons discussed above with respect to Plaintiffs' request for sanctions under Rule 37(b), the Court further orders that the jury shall be instructed that "Google failed to disclose to Plaintiffs the names of key Google employees responsible for developing and implementing Google's Incognito-detection bits."
- 59. Rule 37(c) also provides additional support for the Court's preclusion order. Google's failure to disclose these Google employees undermined Plaintiffs' ability to obtain any meaningful discovery into these Incognito-detection bits. Google is precluded from making any arguments about these Incognito-detection bits.

III. Federal Rule of Civil Procedure 37(e)

- 60. Plaintiffs are also entitled to sanctions under Federal Rule of Civil Procedure 37(e), which provides: "If electronically stored information that should have been preserved in the anticipation or conduct of litigation is lost because a party failed to take reasonable steps to preserve it, and it cannot be restored or replaced through additional discovery, the court . . . upon finding that the party acted with the intent to deprive another party of the information's use in the litigation may" "presume that the lost information was unfavorable to the party" or "instruct the jury that it may or must presume the information was unfavorable to the party."
- 61. The duty to preserve arises when litigation is pending or reasonably foreseeable. *First Fin. Sec., Inc.*, 2016 WL 5870218, at *3. And "intent" in this context means "the evidence shows, or it is reasonable to infer, that a party purposefully destroyed evidence to avoid its litigation obligations." *Phan v. Costco Wholesale Corp.*, No. 19-5713, 2020 WL 5074349, at *2 (N.D. Cal. Aug. 24, 2020). "[T]here is no requirement that the court find prejudice to the non-spoliating party under Rule 37(e)(2)." *Porter v. City of San Francisco*, No. 16-3771, 2018 WL 4215602, at *3 (N.D. Cal. Sept. 5, 2018).
- 62. Google could and should have begun preserving all records where is_chrome_incognito was equal "true" and where is_chrome_non_incognito was equal to "false" at the outset of this case. Google instead destroyed those records, with short retention periods for certain data and logs, and Google has identified no way to retrieve those records.
- 63. The Court rejects Google's assertion that it was justified in deleting such data during the course of this litigation on the ground that it secured a protective order from the Court concerning the deletion of certain logs *in their entirety*.
- 64. The Court never ruled that Google had no obligation to preserve event-level data that was or could have been specifically flagged or could have been flagged with one or more of the undisclosed Incognito-detection bits.

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3	IT IS SO ORDERED.	
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5	DATED:	
6		Honorable Magistrate Judge van Keulen United States Magistrate Judge
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